SERVICE MANUAL

READY ACCESS®

Model 275
Manual
and
Fully Automatic Electric

Drive-Thru Window

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DISCLAIMER

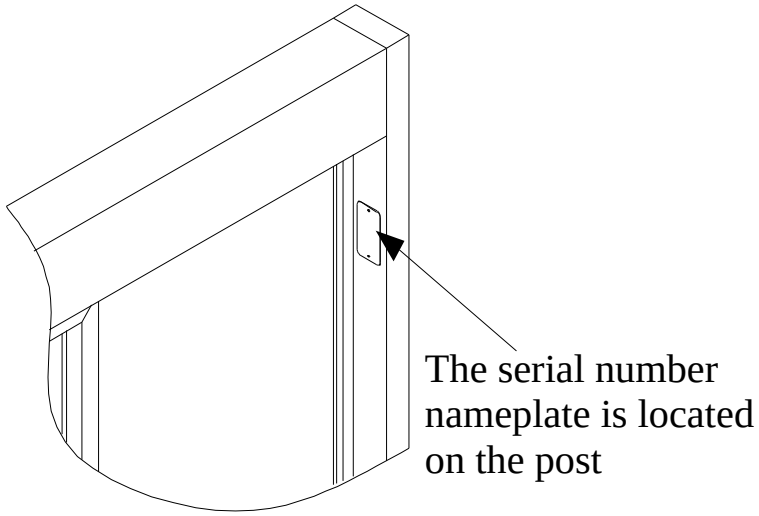
READY ACCESS DISCLAIMS ANY LIABILITY FOR ANY DAMAGE OR HARM CAUSED TO THE 275 DRIVE-THRU WINDOW, IT'S OPERATOR OR ANY OTHER EQUIPMENT HOWEVER CAUSED IF THE 275 DRIVE-THRU WINDOW IS REPAIRED OR SERVICED BY ANYONE OTHER THAN AN AUTHORIZED SERVICE ENGINEER OR CONTRARY TO THE MANUFACTURERS WRITTEN INSTRUCTION CONTAINED HEREIN.

THIS MANUAL IS INTENDED FOR USE BY THE IN-HOUSE OR AUTHORIZED FIELD SERVICE ENGINEERS AND SALES REPRESENTATIVES

The manufacturer maintains the right to update, add or issue a new service manual at any time without notice, thereby rendering all previous issues obsolete.

Please write the Serial Number and Installation Date for your drive-thru window in the spaces provided.

Serial Number	
Date of Installation	



CONTACT INFORMATION

FOR SALES AND SERVICE CONTACT

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INTRODUCTION

The Ready Access window is quality designed to give you years of reliable, trouble-free service. Each window is shipped pre-assembled, fully glazed and ready for installation. All Ready Access windows are thoroughly tested prior to shipping.

The 275 Single Panel Slider Window is the perfect enhancement to the drive-thru concept, offering unobstructed views of customer and crew.

The model 275 drive-up window comes in four versions, manual, self-closing, electric and M.O.E.R. (Manual Open Electronic Release). The electric version is fully automatic with a manual override in case of a power outage. The door will open and close by stepping into and out of the light beam sensor.

The Self-Closing and M.O.E.R. versions of the 275 will be contained in a separate manual.

This attractive and economical window is ideal for a drive-thru or walk up application. The large service opening is suitable for both large and small operations. (See Chart on Page 6)

PRODUCT INFORMATION

- **Manual or Electric Openings**
  The 275 Single Panel Slider keeps building costs down by offering the window in a manual operating style. Or for those who experience heavier traffic, an electric operating style is also available. Electric models meet health department requirements for self-closing units.

- **Ease of Operation**
  In a manual operation, the inside attendant pulls the door handle, to open the door. With a fully automated operation, the operator simply steps into the presence sensor and the movable window panel slides open. When the operator steps out of the presence sensor, the movable window panel automatically closes. The range for the presence sensor is adjustable to specific customer needs.

- **Quality Construction**
  Anodized aluminum extrusions, stainless steel and 1/4" tempered glass combine to give you an attractive window that not only enhances building exteriors, but will not rust, pit or weather. Track free bottom sill provides for a contaminant free surface.

- **Double Security Locks**
  The 275 Single Panel Slider automatically locks each time the window closes, providing security when the window is left unattended. When the drive-thru is closed, manual security locks help prevent outside entry.

- **Fully Assembled, Ready to Install**
  Ready Access windows are shipped completely pre-assembled and fully glazed for lower installation costs. Normal installation takes less than two hours.

- **Three to Five Day Shipping**
  Ready Access will ship any standard window order in 3 to 5 days from receipt of order.

- **Warranty and Service Support**
  Your Ready Access window comes with a one year limited warranty on parts and labor provided by a worldwide service organization.

STANDARD OPTIONS

- The 275 Single Panel Slider is available in statuary bronze or clear anodized aluminum.

- 4 standard window dimensions available: (See Chart on Page # 6)

- A retrofit kit is available for the 47 ½" wide 275 Single Panel Slider that easily upgrades the window from a manual operation to a fully automatic operation.

- An inside/outside stainless steel shelf is also available.

CUSTOM OPTIONS

- Custom sizes are available in both manual and electric operations.

- Tinted glass is available upon request.

- Powder coat painting is available in a wide range of custom colors.

WARRANTY:

Ready Access will only accept responsibility for manufacturing defects in the product's construction and/or materials.

Adjustments required during installation are the responsibility of the installer or contractor and will not be covered under warranty.

Problems caused by improper installation are the responsibility of the installer or contractor and will not be covered under warranty.

SPECIFICATIONS AND PERFORMANCE

Model Number	Unit Voltage		Actual Unit Amps	Dimensions In Inches W X H x D	Weight In Shipping Carton
	USA	International			
275	110/120 VAC 60Hz	220/240 VAC 50/60Hz	15 A (US) 8 A (Int'l)	47½ x 43½ x 4	95 lbs
275	110/120 VAC 60Hz	220/240 VAC 50/60Hz	15 A (US) 8 A (Int'l)	47½ x 35¾ x 4	87 lbs
275	110/120 VAC 60Hz	220/240 VAC 50/60Hz	15 A (US) 8 A (Int'l)	47½ x 30 x 4	80 lbs
275 **(SC)**	N/A	N/A	N/A	35 ¾ x 35¾ x 4	80 lbs

Dimensions In Inches W x H x D	Service Opening Size W x H	Glazing Rough Opening Size W x H	Masonry Rough Opening Size W x H
		47 ¾" x 43 ¾"	48" x 44"
47½ x 43½ x 4	19 ¼" x 35"	1213mm x 1111mm	1219mm x 1118mm
		47 ¾" x 36"	48" x 36 ¼"
47½ x 35¾ x 4	19 ¼" x 27 ¼"	1213mm x 914mm	1219mm x 921mm
		47 ¾" x 30 ¼"	48" x 30 ½"
47½ x 30 x 4	19 ¼" x 21 ½"	1213mm x 768mm	1219mm x 775mm
		36" x 36"	36 ¼" x 36 ¼"
35 ¾ x 35¾ x 4	13 ? " x 27 ¼"	914mm x 914mm	921mm x 921mm
West Coast Window	15 ? " x 27 ¼"		

Dimensions

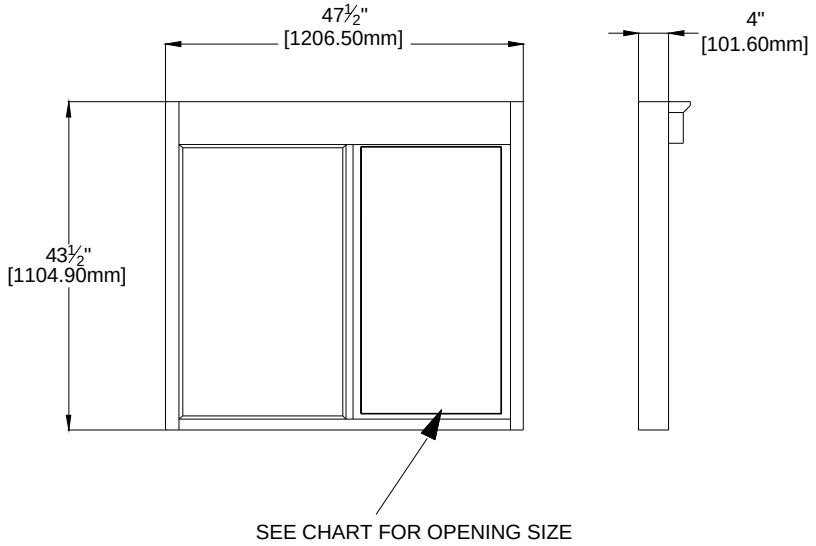


Figure 1

Safety Information

WARNING: To avoid the risk of fire, Electric Shock or injury to persons, observe the following:

1. Before servicing or cleaning the unit, switch the power off at the mechanical switch near the unit (Installed by an Electrician) or the electrical entry service panel/circuit breaker. (Load Center)
   - **OSHA** LOCK OUT – TAG OUT procedures are to be observed to prevent power from being switched on accidentally.

2. Any Installation and / or Electrical work must be done by **QUALIFIED** persons in accordance with all applicable codes / standards and manufacturers recommendations and specifications.

3. **DO NOT** insert fingers and / or foreign objects into the Drive-Thru Window.
   DO NOT block or tamper with the unit in any manner while it is in operation.

4. This product must not be used in Potentially Dangerous locations such as Flammable, Explosive Chemical – laden environment.

Installation Procedures

Tools required to perform the installation

- Electric Drill
- Metal Drill bits –
  ?” (3mm)
  ¼” (6mm)
  ½” (13mm)
  1” (25mm)
- Screwdrivers – Slotted and Phillips
- Hacksaw
- Jack / Utility Knife
- Flat File – Coarse
- Caulking gun
- ¼” Nut Driver
- Extension Cord
- Masonry drill bit –
  ¼” (6mm)
  1” (25mm)
  1½” (38mm)
- Masonry Hole Saw – 1” (25mm)
- Channel Lock Pliers
- Tape Measurer
- Wire Cutter
- Step Ladder
- Level

Materials required for installation

- Window framing, architect specified and installed in building.
  (Ready Access recommended material is ?“ (3mm) x 1 ¾” (44.5mm) x 4” (102mm) hollow aluminum tubing or glazing channel)
- Electrical Tape
- Wire Nuts
- Caulking – silicone (Color specific to the color of window)
- Connectors for conduit as required
- Shingle type shims – as required to level and plum the window

Physical Installation

Before you begin installing your Ready Access Drive-Thru Window, you must determine what type of installation will be required. Example: Wood Framing, Masonry Framing, etc.
Please refer to the details below and pick which one best fit your application.

See Chart on page 6 for Masonry and Glazing Rough Opening Sizes

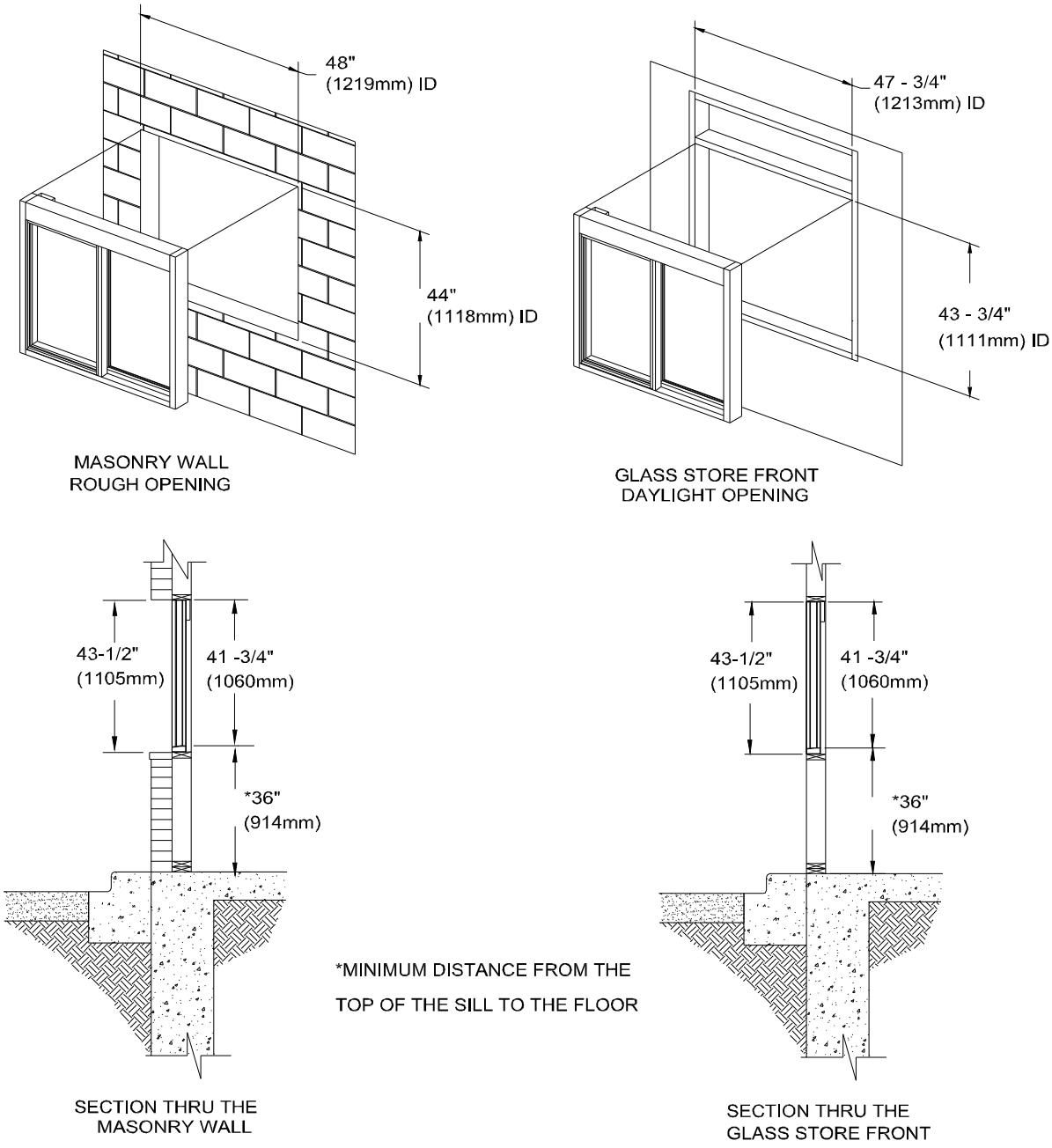


FIGURE 2

WARNING:
TWO PEOPLE ARE REQUIRED FOR THE LIFTING AND INSTALLATION OF THE WINDOW.

1. Confirm that the customer-supplied frame is made to accommodate the dimensions as illustrated on page 10.
2. For the Fully Automatic – Electric units, confirm that AC power has been run and is ready for connection to the window.
3. Check shipping carton for any shipping damage and remove window from the carton.
4. Check window for any shipping damage.

NOTE: There are two wall-mounting applications. The mounting space can be surrounded either by sidelights (windows) or masonry. In both cases the upper part of the window above the counter top (window sill) fits flush with the outside of the wall. (See Figure 2) The illustrations will show the walls with the sidelights, as this is the most common application. (Figure 3 and 4)

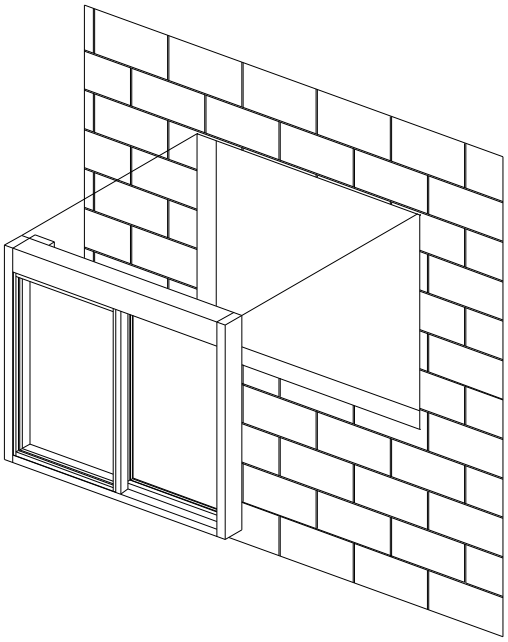


Figure 3

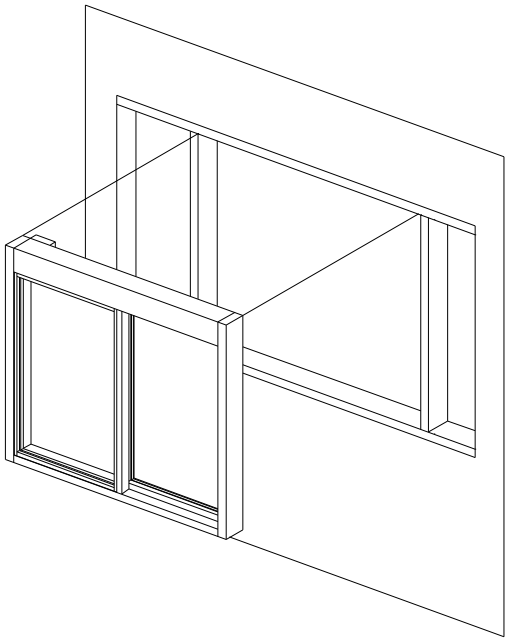


Figure 4

NOTE: If mounting the window in a masonry wall the window mounts flush with the outside finishing of the building. Drill points are scribed directly into the masonry. The outside edge of the mullion should be flush with the outside finishing of the building. (See Figure 3 and 4)

5. Position the window and place it into the customer-supplied frame. As shown in Figure 3 and 4

6. With one person holding the window in place, level the window using the shim shingles as needed.

7. Using the window mounting holes as a template, drill a quantity of 4 – 3/16” (5mm) diameter holes for mounting. (See Figure 5)

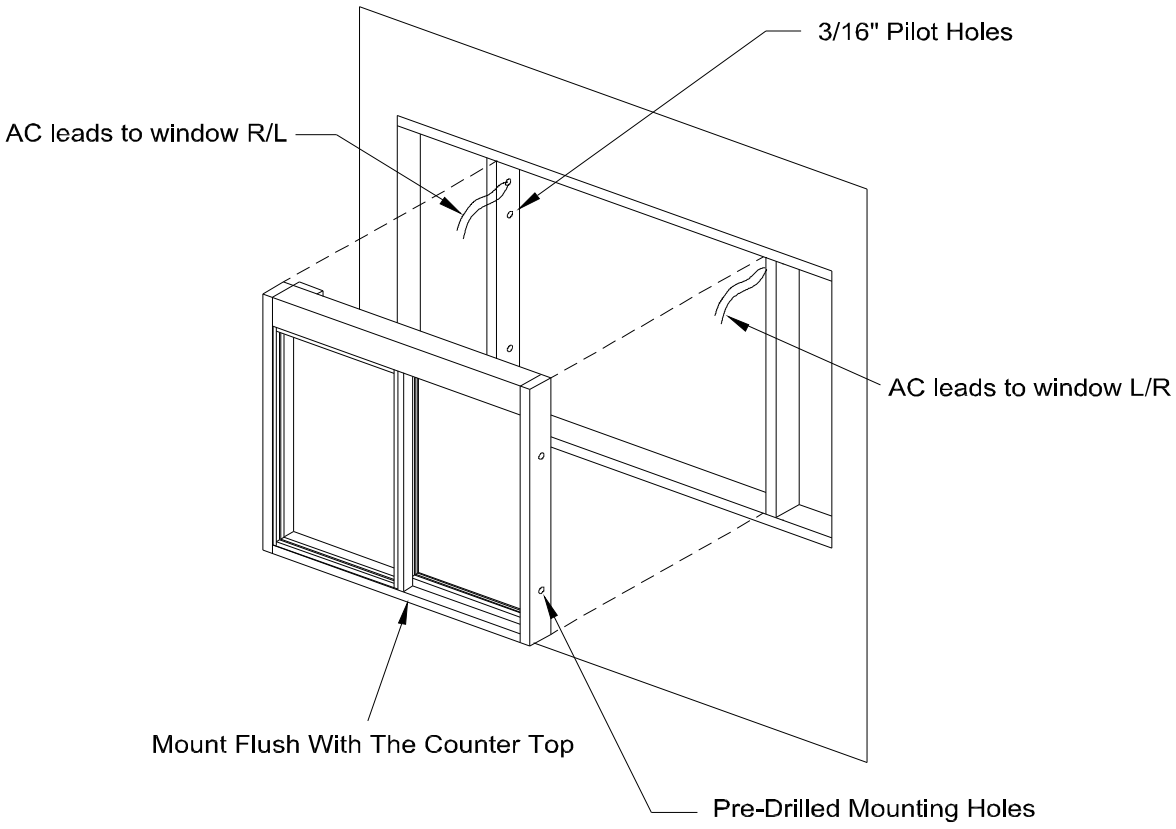


Figure 5

8. Take the window back out and drill the mounting holes. Set the anchors as needed.

9. With one person holding the window in place from the outside, set the mounting screws.

10. When the window is fully secured, seal the outside of the window to the frame or building using silicone caulk.

Electrical Installation

All power must be connected and wired by a **qualified electrician** and must be in compliance with all state and local codes.

The incoming AC power line must be connected to the wires in the duplex box located in the top header (Per Standard electrical code.) The green “grounding” wire is to be attached to the frame of the unit.

WARNING: Use only 110/120VAC – 60Hz source with a dedicated 15Amp circuit.
International power: 220/240VAC – 50/60Hz with a dedicated 8amp branch circuit.

WARNING: This must be a dedicated circuit. Other electrical equipment must not share the same line from the 15Amp circuit breaker.

WARNING: Turning off the front panel rocker switches does not remove the 110/120 volts of electrical power form the unit

WARNING: To disconnect the power completely from this unit, turn OFF the mechanical switch near the unit (Installed by an Electrician) or the electrical entry service panel/circuit breaker panel (Load Center) for this unit.

- **OSHA** LOCK OUT – TAG OUT procedures are to be observed to prevent power from being switched on accidentally.

1. Remove the 4 screws holding on the slide channel cover.
2. Wire the AC source line to the duplex receptacle. (See Figure 6)

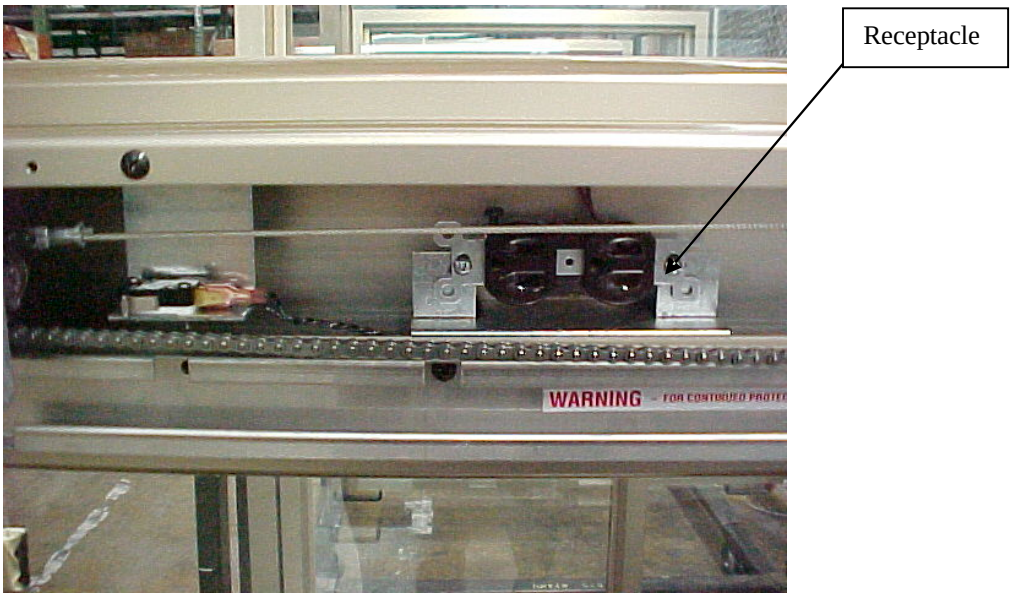


Figure 6 (Pre – 2003 models)

3. Connect the cable wire from the electric eye sensor.
4. Drill 4 - ¼” (6.5mm) holes using the masonry drill bit. (For Waist High Electric Eye Only)
5. Insert the plastic anchors and mount the brackets with the #10 or #12 screws. (For Waist High Electric Eye Only)
6. Attach the sensor to the brackets and secure. (For Waist High Electric Eye Only)
7. Turn “ON” the power to the unit. (Load center circuit breaker and power switch on the “Control unit”.
8. Test window operations. See “Testing Procedures”.

For windows purchased after January 2003, follow these instructions.

1. Remove the 2 screws holding on the AC access panel. **Do not remove the slide channel cover**.

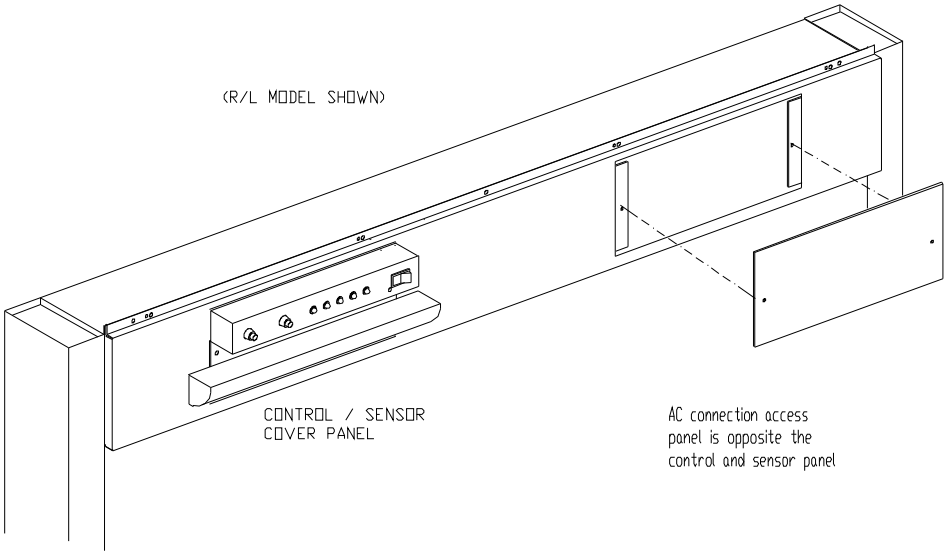
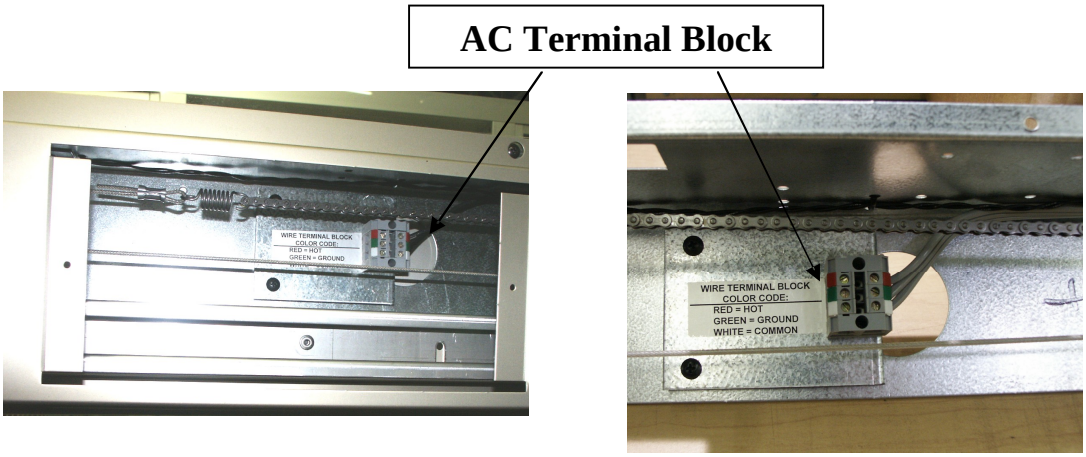


Figure 6A (2003 and later models)

2. Wire the AC source line to the Terminal Block located in the header of the window.



NOTE: THE GROUND WIRE (GREEN) IS ALWAYS IN THE CENTER OF THE TERMINAL BLOCK. THE LINE (L1) IS INDICATED BY THE (RED) TAB AND THE RETURN (NEUTRAL) IS INDICATED BY THE (WHITE) TAB.

3. Turn “ON” the power to the unit. (Load center circuit breaker and power switch on the “Control Panel”).
4. Test window operations. See “Testing Procedures”.

Initial Window Operation

Testing Procedures

Action	Reaction
Turn the power **"OFF"** at the rocker switch located on the controller unit. Manually open and close the door several times.	When the door is opening, the "MOTOR RUN" lamp will illuminate green. When the door is closing, "MOTOR RUN" lamp will illuminate red. The "POWER" lamp must illuminate during both operations. If neither of these lamps illuminate during any of the processes, proceed to the "Troubleshooting" section.
Turn the power **"ON"** at the rocker switch located on the controller unit. Break the electric eye beam to open the door.	The door will open.
With the power **"ON"** break the electric eye beam momentarily to open and close the door.	The door will open. They will remain in the open position for either approximately 3.0 or 6.0 seconds before closing (Default Settings)
With the power **"ON"** press the "CLOSE DELAY" button located on the controller unit once and break the electric eye beam to open the door	The door will open and the length of time that the door remains open will toggle between 3.0 and 6.0 seconds before closing. (Default Settings)
With the power **"ON"** break the electric eye beam momentarily to open and close the door. Insert an object at least 4" (101.6mm) wide between the door and frame as the door closes.	The door will automatically reverse their action (the door will open), when an object is caught between or restricting the closing of the door.

Adjustments and Calibrations

SuperScan Presence Sensor Adjustment Instruction

Once the window is installed and the power is hooked up to the drive-thru window unit, you will need to test and set the range of the presence sensor. This is done to determine the best compatibility for your service applications. The presence sensor can be adjusted in many ways to work with different applications.

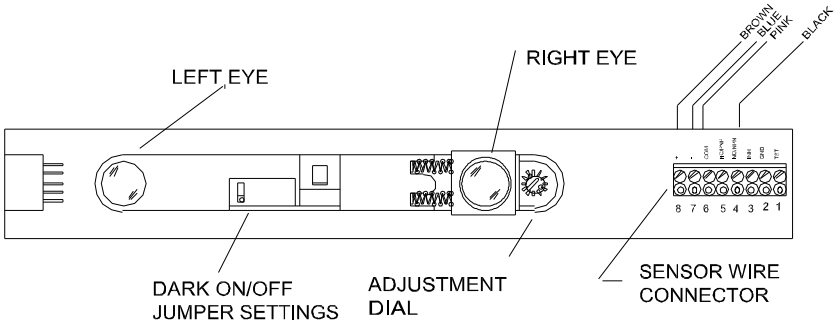
The tools required to perform this test and adjustments are: Phillips Head Screwdriver, Straight Blade Screwdriver and a ¼" Nut Driver.

If the drive-thru window stays open after the power is turned on and the beam break light is "ON", the sensor is detecting the floor or the counter top.

To adjust the presence sensor to the floor:

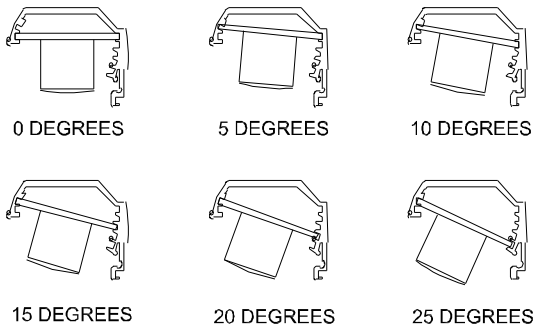
1. Turn the power "OFF" to the drive-thru window.
2. Remove one of the plastic end caps from the sensor body. (Preferably the left side)
3. Remove the black plastic lens cover.

Next to the "Right Eye" you will see an adjustment dial. This dial is used for adjusting the sensor to the distance from the floor. The dial is in a clock format. The maximum distance is achieved at the 9 o'clock position after the right eye clicks back into it's broadest setting. The minimum distance is achieved at the 9 o'clock position before the right eye clicks back into it's broadest setting.
NOTE: TURN THE DIAL IN A COUNTER_CLOCK_WISE FASHION ONLY.



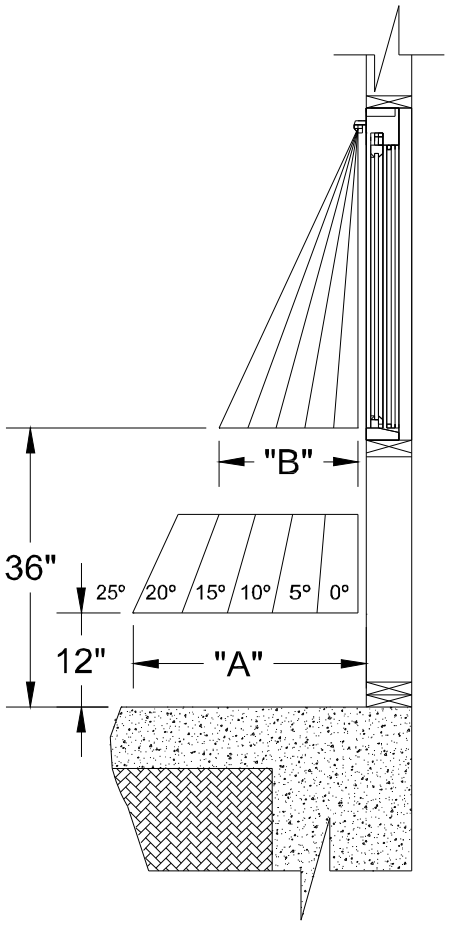
If the Drive-Thru window stays open while standing far away from the wall or the window closes on you while you are passing product out to the customer, then the angle of the sensor needs to be adjusted.

Below are diagrams illustrating the different settings that can be done to adjust the distance from the wall.



To adjust the sensor further or closer to the wall, follow the following steps.

1. Remove the header cover from the drive-thru window frame.
2. Disconnect the sensor from the inline connector.
3. Remove the (2) ¼" Hex head screws from the back of the cover that mounts the sensor to the cover.
4. Once the sensor has been removed, remove the eye control board from the sensor body.
5. Position the white plastic clips around the eye control board as illustrated on the previous page. (Reference the chart below to achieve the proper setting that is needed for your application.)
6. Once setting has been determined, insert the eye control board back into the housing.
7. Remount the sensor housing onto the cover.
8. Reconnect the sensor wires.
9. Attach the header cover to the drive-thru window.

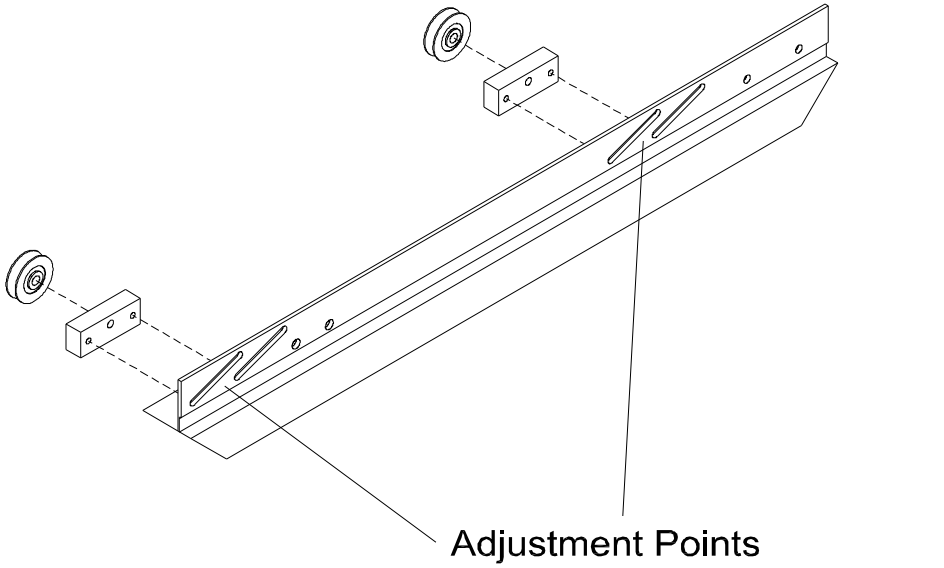


RANGE OF SENSOR FROM WALL REFERENCE CHART							
MODEL 275	"A" DIMENSION RANGE WITH 12" DEAD ZONE FROM FLOOR						
UNIT HEIGHT	DEGREE	0°	5°	10°	15°	20°	25°
43-1/2"	"A"	1"	6-1/2"	12"	18"	24"	30-1/2"
35-3/4"		1"	6"	10"	16"	21"	27"
30"		1"	5-1/2"	9"	14"	19"	24"

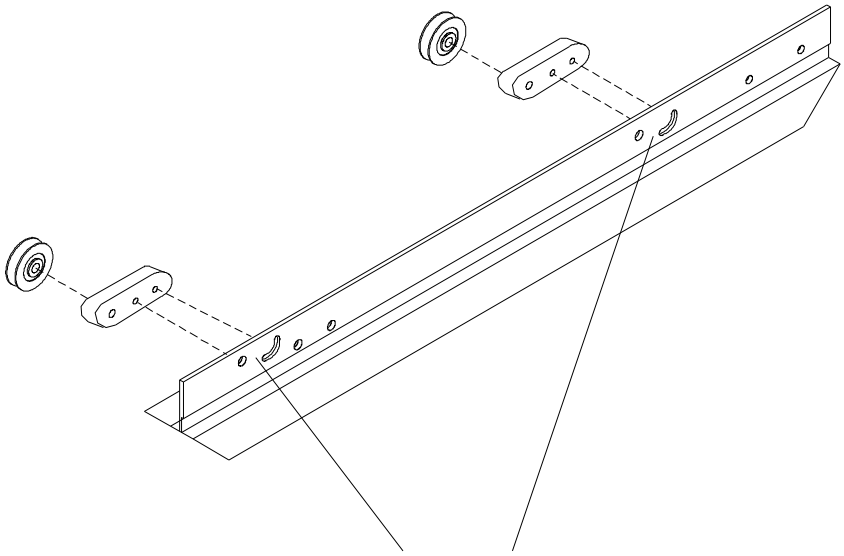
RANGE OF SENSOR FROM WALL AT THE WINDOW SILL REFERENCE CHART							
MODEL 275	"B" DIMENSION RANGE AT 36" FROM FLOOR						
UNIT HEIGHT	DEGREE	0°	5°	10°	15°	20°	25°
43-1/2"	"B"	1"	4-1/2"	8"	11-1/2"	15"	19-1/2"
35-3/4"		1"	3-1/2"	6"	9-1/2"	12"	15-1/2"
30"		1"	3"	5"	8"	10"	13"

Door Alignment

Adjustments to the door height and alignment are accomplished by loosening one or both of the adjustment blocks located at the top of the doorframe where it mounts to the slide track. (Figure 7)



Upper Door Channel (Old Style)



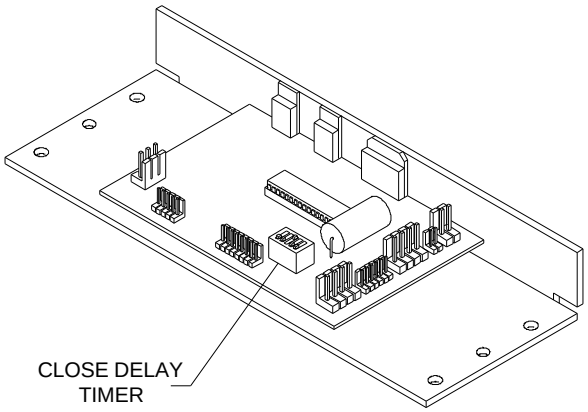
Upper Door Channel (New Style)

Figure 7

Calibration:

The only calibration available on the new style DC-3 PC board is setting the close delay timer using the dip switch package mounted near the ribbon cable connector.

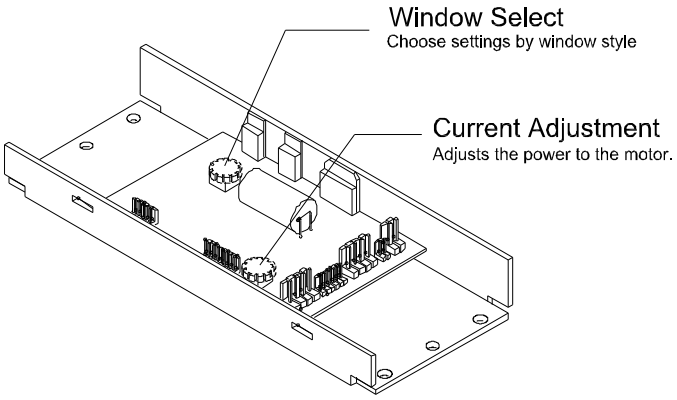
The CLOSE DELAY TIMER is default set a 3 seconds.



Follow the chart below for changing
The CLOSE DELAY TIMER settings

DIP SWITCH SETTINGS					
TIME IN SECONDS	SWITCH POSITION				
	1	2	3	4	5
1	ON	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF
3	OFF	OFF	ON	OFF	OFF
4	OFF	OFF	OFF	ON	OFF
5	OFF	OFF	OFF	OFF	ON
12	ON	ON	OFF	OFF	OFF
13	ON	OFF	ON	OFF	OFF
14	ON	OFF	OFF	ON	OFF
15	ON	OFF	OFF	OFF	ON
23	OFF	ON	ON	OFF	OFF
24	OFF	ON	OFF	ON	OFF
25	OFF	ON	OFF	OFF	ON
34	OFF	OFF	ON	ON	OFF
35	OFF	OFF	ON	OFF	ON
45	OFF	OFF	OFF	ON	ON

The DC-2 PCB has (2) Two Potentiometers



The WINDOW SELECT DIAL is used to set the type of door configuration for the model of the window.

The CURRENT DIAL is used to increase or decrease the current to the motor sensetivity. This is used to set the auto-reverse.

Operation Procedures

Modes of Operation:

The 275 Single Panel Slider windows have four modes of operation, Manual, Self-Closing, M.O.E.R. and Automatic.

After installation of the Model 275 Manual or Electric Sliding window, completion of the testing procedures and the installation of the decorative covers, the window is ready for normal use.

The **Manual Mode:** The opening and closing of the window is done by hand.
(DO NOT OPEN OR CLOSE THE DOOR WITH ANY UNDUE FORCE)

Manual Operations:

1. Unlock the lock bar and move it to its rest position
2. Release the manual latch and push the door open.
3. Push the door closed and allow the manual latch to reset.
4. Relock the lock bar. (At the close of the operation)

The **Automatic Mode** is reached by turning “ON” the main power to the window. Stepping in and out of the sensor’s range opens and closes the door.

Automatic Operations:

1. On the controller unit, turn the power rocker switch to the “ON” position.
2. Check that the red portion of the rocker switch is visible and that the red power lamp is illuminated
3. Break the electronic eye beam or step into the sensor beam path. The red beam break and green motor run lamps go on.
4. Step out of the beam path and wait 3 to 6 seconds for the door to close. The red motor run lamp and red close detect lamps will illuminate. After the door closes note that the red power lamp and the current detect lamps are “ON”.
5. If the door does not operate correctly, go to the troubleshooting guide in this manual. If the window still does not operate properly, then call Ready Access at

1-800-621-5045

6. The door can be operated manually by pulling the manual release located at the top of the door.

NOTE: Turn the power off to the window to prevent any damage to the PCB.

<u>Each operator must read the operations manual before operating the unit.</u>

Controls Identification, Explanation and Function

Controller Unit

Lamps and Switches	Function
Power Lamp	This lamp indicates that the power rocker switch is on and the controller is receiving power.
Motor Run Lamp	The “MOTOR RUN” lamp indicates that power is being applied to the motor. When the door is opening, lamp will illuminate green. When the door is closing, the lamp will illuminate red. The lamp also allows for the diagnostic checking of the motor and motor wiring. To test, turn the power “OFF” at the rocker switch and manually open and close the door. This will cause the lamp to illuminate either green or red. The “POWER” lamp must illuminate during both operations. If neither of these lamps illuminate during any of the processes, proceed to the “Troubleshooting” section.
Beam Break Lamp	This lamp indicates that the electric eye beam or presence sensor beam has been broken and/or the “CLOSE DELAY” timer is still timing out.
Close Detect Lamp	This lamp is red and indicates that a “CLOSE” sequence has been initiated. It will always light during a door closure and will go out just before the door contacts the frame. When the lamp is out, the automatic reverse feature is disabled.
Current Detect Lamp	This lamp is red and indicates an overload has been detected. This lamp may light on opening but is automatically disabled. The lamp will come on when the door is fully closed or when an obstruction has been encountered
Beam Test Switch	Pressing the “BEAM TEST” button once will test the operations of the door without using the electric eye or presence sensor. To test, the operator should not be in the path of the light beam or presence sensor. Standing in the light beam while pressing the button will put the window into a test mode. This will make the window continuously operate (open and close) automatically. You must turn the power off and back on to reset the window.
Close Delay Switch	Pressing this button will toggle the length of time that the door remains open between 3.0 and 6.0 seconds before closing.

Maintenance

Maintenance Schedule

Scheduled maintenance should be performed on a regular basis. This is to assure proper operation and performance of the 275 windows.

Daily

Check the sill for foreign materials and/or syrup. (Anything that might cause the window to bind up and not operate smoothly.)

Use warm soapy water or carbonated water to clean the window.

Monthly

Follow safety procedures before opening the unit.

Check the interior of the unit for any build up of any foreign materials using a dry cloth.

NOTE: KEEP ANY LIQUIDS OFF THE INTERIOR COMPONENTS.

Clean moving parts and lubricate with silicone or Teflon spray.

NOTE: Do NOT use Grease or Oils. Do NOT lubricate the motor clutch assembly.

Yearly

Have a service technician come in and perform a maintenance check on the unit.

SERVICE

Troubleshooting Guide

Issue	Probable Cause	Resolution
Power switch in the "ON" position but the light is not illuminated.	• No power to the controller unit Ø Main Circuit breaker is defective or not "ON" Ø The fuse on the power supply is blown Ø Main power rocker switch is defective Ø AC wiring is defective	Ø Reset or replace the main circuit breaker in the load center Ø Replace the fuse on the power supply Ø Test rocker switch with an ohmmeter. Replace if necessary Ø Check AC wiring for opens. Replace if necessary
	• Red Lamp/s not illuminating	• Replace the PCB assembly cover
	• The 4 pin power connector to the main PCB assembly is not secure	• Secure the connector/s to the power supply
	• The connector/s to the rocker switch are not secure	• Secure the connector/s to the rocker switch
"BEAM BREAK" lamp is "OFF" and does not illuminate when the electric eye is broken.	• Defective electric eye assembly Ø Pressing the "BEAM TEST" button on the controller unit can test this. The door should open, pause and close. If the door operate normally, check other causes listed below	• Replace the electric eye assembly
	• Loose electric eye cable from the PCB	• Secure the cable connector (3 or 4 pin)
	• Loose or broken wire/s in the electric eye cable	• Check that the electric eye cables are secure and not broken
	• Defective lamp	• Replace the PCB assembly cover
	• Defective PCB assembly	• Replace the PCB assembly
The "CLOSE DELAY" switch is not working properly.	• Loose or broken connection to the PCB Assembly	• Secure the cable connector to the PCB assembly or replace the control PCB cover
	• Defective "CLOSE DELAY" switch	• Replace the control PCB cover

Issue	Probable Cause	Resolution
When the beam is broken, the door do not open. The red “POWER” and “BEAM BREAK” lights and the green “MOTOR RUN” light on the CONTROLLER unit are “ON”.	• Defective motor assembly. Ø To test for a defective motor, open and close the door with the power “OFF”. If the motor is faulty, the red/green “MOTOR RUN” lamp will not illuminate.	• Replace the motor assembly
	• Solenoid latch in the door is stuck or defective Ø To test for a defective solenoid, manually open the door halfway and break the beam. The solenoid should retract the hook and the door should open, pause and close. Break the beam again to verify that the door is not opening Ø Check the wiring to the solenoid	• Replace the solenoid
	• Defective components on the cable drive assembly. (“S” hook, cable, spring, chain, bearing	• Replace the defective component.
Beam Break Lamp is “ON” and the door open, but they do not close.	• Loose or broken wires	• Secure or Replace the cable assembly
	• Defective electric eye assembly Ø Disconnect the cable for the electric eye and press the “BEAM TEST” button. If the door operate properly the eye is defective	• Replace the eye assembly
	• Defective PCB assembly Ø Disconnect the cable for the electric eye and press the “BEAM TEST” button. If the door do not operate properly the PCB is defective	• Replace the PCB assembly
The “BEAM TEST” switch is not working properly.	• Loose or broken connection to the PCB assembly	• Secure or replace the cable assembly
The “BEAM BREAK” lamp is not illuminated and the door do not open	• Defective CONTROLLER unit	• Replace the CONTROLLER unit
	• Defective PCB assembly	• Replace the PCB assembly

Issue	Probable Cause	Resolution
Motor continues to run after the door is fully opened.	• Loose or broken wires to the limit switches or the PCB assembly	• Secure or replace the cable assembly
	• Defective “Open” limit switch	• Replace the appropriate switch
	• Defective controller unit	• Replace the controller unit
The door will not “AUTO REVERSE” for an obstruction when closing and the motor continues to run. The “CURRENT DETECT” lamp will not illuminate.	• Loose or broken wires to the limit switches or the PCB assembly	• Secure or replace the cable assembly
	• Defective controller unit	• Replace the controller unit
The door closes fully but open back up as soon as the door come in contact with each other.	• Loose or broken wires to the limit switches or the PCB assembly	• Secure or replace the cable assembly
	• Limit switch striker is loose or out of alignment	• Tighten and/or align the striker plate
	• Defective controller unit	• Replace the controller unit
The door does not fully close and goes into AUTOREVERSE to the fully open position. Door may be sluggish in operations. The “CURRENT DETECT” lamp will be illuminated before the “CLOSE DETECT” lamp goes out. **(BEFORE REPLACING THE MOTOR CALL READY ACCESS FOR FURTHER INSTRUCTIONS)**	• Spilled soft drink syrup residue is under the door and on the weather stripping of guide block	• Clean the weather stripping, counter and door guides on the bottom of the door with soda water
	• Door is dragging on the counter top	• Adjust the door height and alignment (Refer to the adjustments section of this manual)
	• Defective motor assembly Ø To test for a defective motor, open and close the door with the power “OFF”. If the motor is faulty, the red/green “MOTOR RUN” lamp will not illuminate.	• Replace the defective motor assembly
	• Defective CONTROLLER unit	• Replace the CONTROLLER unit
	• Cable and chain is loose	• Tighten cable pulley

Parts Lists

Description	Current Part Number	Previous Part Number	Note
"S" Hook	20240016	N/A	
Angle - Reinforcement - Door - ALL SLIDERS	95119900	N/A	4pcs per door - sold in each
Bracket, Chain & Micro Striker L/R	65181120	N/A	
Bracket, Chain & Micro Striker R/L	65181110	N/A	
Bumper	40010030	N/A	
Bumper w/blk Lvl - 1x1	40010003	N/A	
Cable - Auto Latch (Solenoid)	20112141	00651313	
Cable - Eye (Waist High)	20112143	20110143	
Cable - Micro Switch	20112140	N/A	
Cable - Motor	20112145	20110145	
Cable - Power	20112142	20110142	
Cable & Chain Assy	85182000	65182001	
Cable & Chain Assy (New Chassis)	85001800	N/A	
Cable, BEA Sensor to PCB (New Chassis)	20112104	N/A	
Clutch Assy - Kit - BO-10, 131, 275	85152700	65152701	
Control Housing L-R - M.O.E.R.	85100820	N/A	
Control Housing R-L - M.O.E.R.	85100810	N/A	
Cover (Inside) New Style - Bronze	65110401	N/A	
Cover (Inside) New Style - Champ	65110403	N/A	
Cover (Inside) New Style - Clear	65110402	N/A	
Doors	**Call manufacturer for part number**		
Door guide	00651190	00651186	
Door Guide Replacement Kit (Both Pcs)	85003400	N/A	
Door Handle Kit - (275 SC)	85197000	65197001	
Electric Chassis L/R - New Style 2003 (chassis)	85002120	N/A	New Style 2003 (chassis)
Electric Chassis R/L - New Style 2003 (chassis)	85002110	N/A	New Style 2003 (chassis)
Electric Eye/Reflector Kit -waist level operation	85000200	00651144	Not MOER or 275 after 2/99
Electric Panel - BRZ	66122401	N/A	
Electric Panel - CHMP	66122403	N/A	
Electric Panel - CLR	66122402	N/A	
Eye Switch Retrofit	84000300	N/A	

Description	Current Part Number	Previous Part Number	Note
Flat Washer	10230108	N/A	
Fuse - .5A / 250VAC	20110229	N/A	
Glass Support	00650272	N/A	
Handle - Manual Release - 275 L/R New Style 2003	85002320	N/A	
Handle - Manual Release - 275 R/L	85002310	N/A	New Style 2003 (chassis)
Handle Kit - Manual Release - L/R	85186620	65186620	
Handle Kit - Manual Release - R/L	85186610	65186610	
Housing - Elect Eye	00650929	N/A	
Latch Spring	00650269	N/A	
Lock Bar - Lower - Swing Brkt	65023601	N/A	
Lock Bar Kit - Bronze	85197101	65197101	
Lock Bar Kit - Champ	85197104	N/A	
Lock Bar Kit - Clear	85197102	65197102	
Lock Bar Kit - Powder	85197103	N/A	
Motor & Clutch Assy	85186700	65186701	
PC Board - DC3 as of 12/14/01	85002001		Not MOER
Power Receptacle	20110241	N/A	
Power Supply 120 V	85001300	65168001	2002 old style prior to Jan 1, 2003
Power Supply (elec chassis only)	85001400	N/A	
Power Supply Int'l (elec chassis only)	85001700	N/A	
Power Supply Int'l , B/O1,2,4,275 Int'l	85001600	N/A	2002 old style prior to Jan 1, 2003
Pulley-Kilrol (cable)	20200142	N/A	
Rivet	10180009	N/A	
Rivet For Door Guide	10180024	N/A	
Roller Block - Banana Slot	20010012	N/A	New Style - 2001
Roller Block Replacement Kit - 2 Pcs	85003100	N/A	Includes 4- 10010107, 2-20010030
Roller Grove Bearing - SINGLE ROLLER KIT	85003600	20010030	
Round Closing Door Guide	00651834	N/A	
Rubber Glass Channel	65028601	N/A	
Screw 8-32X5/8 INDENTED HEX WASH THDCT T-23 ZP	10060074	N/A	
Screw for Bumper (8X1-1/2 PHILIPS PAN HD SHT MTL)	10060086	N/A	

Description	Current Part Number	Previous Part Number	Note
Screw for inside cover, sensor striker	10010114	N/A	
Screw Kit for 275 Adustable Track	85000700	N/A	
Screws for Door Guide (Need 4)	10060087	N/A	
Screws w/lock washers for roller blocks	10010107	N/A	
Screws w/lock washers for roller grv brg	10010150	N/A	
Sensor Assy - BEA - 275-E /starting 2/5/99 Ser# 68024	85100701	N/A	
Sensor Assy - BEA - M.O.E.R.	85100700	N/A	
Sensor Striker	65151101	N/A	
Shoulder Screw for Manual Release	10010204	N/A	
Silicone Caulk - 8 oz - Aluminum	80050029	N/A	
Silicone Caulk - 8 oz - Bronze	80050020	N/A	
Solenoid & Hook Assy for Electric Chassis L/R	85002920	N/A	New Style 2003 (chassis)
Solenoid & Hook Assy for Electric Chassis R/L	85002910	N/A	New Style 2003 (chassis)
Solenoid & Hook Assy L/R	85150520	65150502	
Solenoid & Hook Assy R/L	85150510	65150501	
Spring - Compression (Motor & Clutch)	20060026	N/A	
Spring & Ball Knob Kit (3 ea. kit)	85000300	00650284	
Spring Kit - Door Handle	85197300	65197301	
Striker Plate - Microswitch	65111600	N/A	
Striker Plate for Handle order 2 Pop Rivets	95183600	N/A	P/N 10180009 seperately
Switch - LIMIT FOR CHASSIS	85002200	N/A	
Switch - Micro	20110281	N/A	
Symmetrical Top Track.	95110700	N/A	
W. COAST LOCK BAR KIT - BRZ	85002701	N/A	
Washer - Clutch	10230104	N/A	
Weather Strip Kit - BO-2,4,10, 275	85104000	65104001	
Wired Switch Cover - Bronze	65184701	N/A	
Wired Switch Cover - Champagne	65184703	N/A	
Wired Switch Cover - Clear	65184702	N/A	

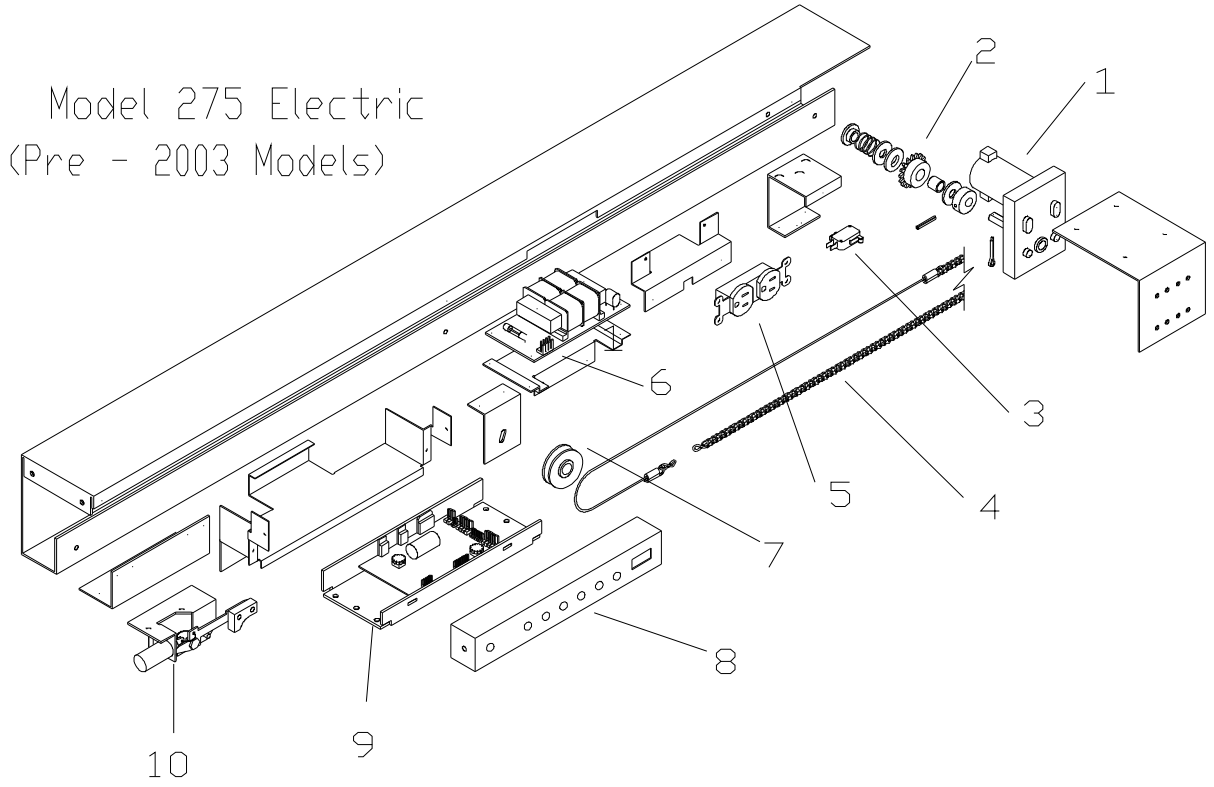
Drawings

Exploded Views

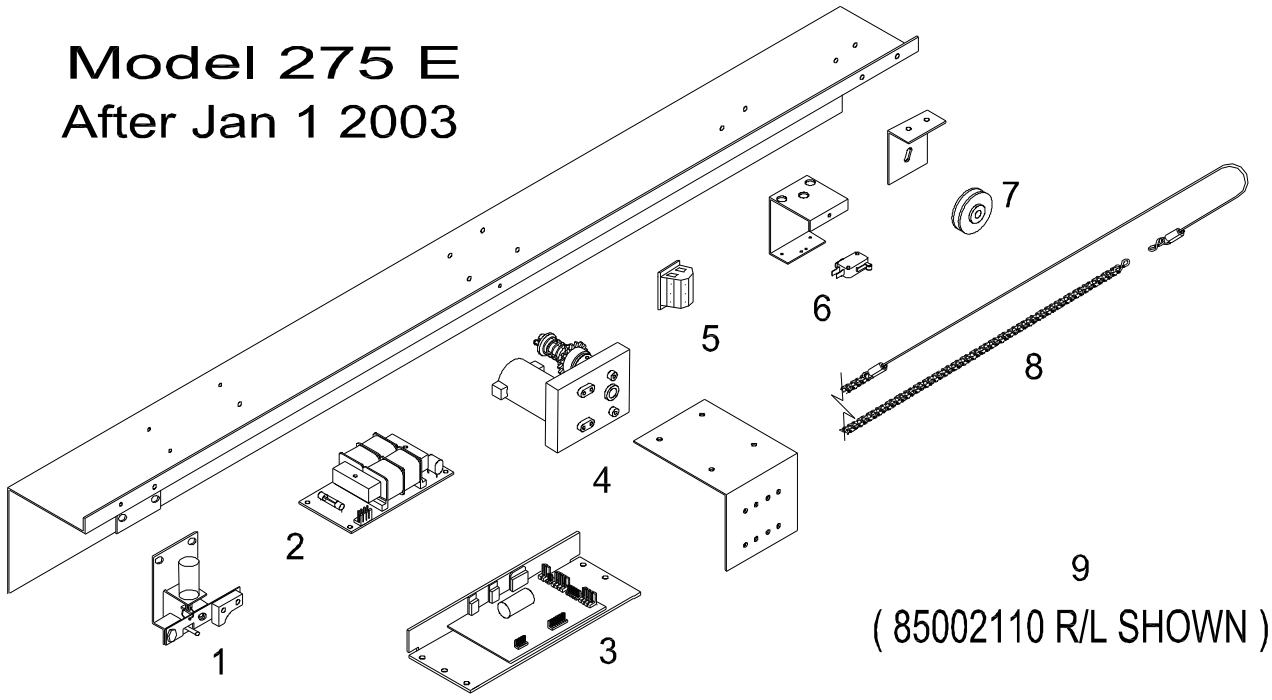
Page	Part Number If Applicable	Description
29	N/A	Header Assembly Pre 2003 – Exploded View
30	85002110	Header Assembly R/L – Electric Chassis – Exploded
31	85186700	Motor and Clutch Assembly (w/ Bracket Detached)
31	85152700	Clutch Assembly – Exploded View
32	85150510 / 520	Solenoid and Hook Assembly – Pre Jan 2003
32	85002910 / 920	Solenoid and Hook Assembly – Post Jan 2003
32	85197000	Door Handle Kit – Exploded View
32	85003600	Roller Grove Bearing
33	N/A	Window Frame – Exploded View
34	N/A	Door Assembly – Exploded View

Schematics

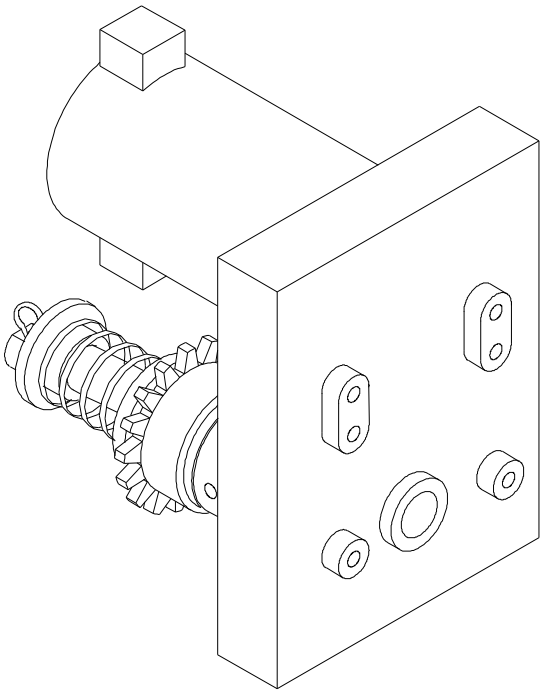
35	N/A	Wiring Layout



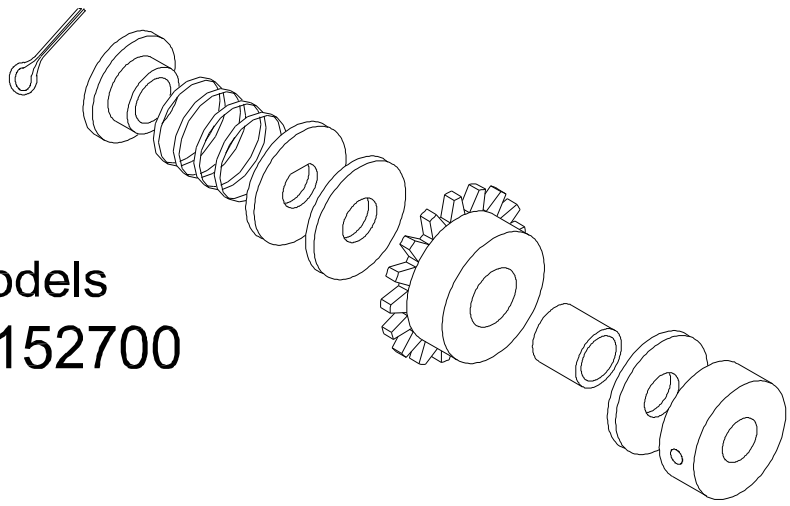
REF ID #	PART NUMBER	DESCRIPTION		REF ID #	PART NUMBER	DESCRIPTION
1	85186700	Motor & Clutch Assy		7	20200142	Kilrol Pulley
2	85152700	Clutch Assy		8	65184701	Control Cover BR
3	20110281	Micro switch		8	65184702	Control Cover CL
4	85182000	Cable and Chain Assy		9	85002001	Control PCB Assy
5	20110241	Receptacle		10	85150510	Solenoid and Hook Assy R/L
6	85001300	120V Power Supply				
*6	85001600	220V Power Supply (Int'l)		10	85150520	Solenoid and Hook Assy L/R



REF ID #	PART NUMBER	DESCRIPTION		REF ID #	PART NUMBER	DESCRIPTION
1	85002910	Solenoid and Hook Assy R/L		5	20220003	AC Terminal Block
1	85002920	Solenoid and Hook Assy L/R		6	20110281	Micro switch
2	85001400	120V Power Supply		7	20200142	Kilrol Pulley
*2	85001700	220V Power Supply (Int'l)		8	85001800	Cable and Chain Assy
3	85002001	Control PCB Assy		9	85002120	Electric Chassis – L/R
4	85186700	Motor & Clutch Assy		9	85002110	Electric Chassis – R/L

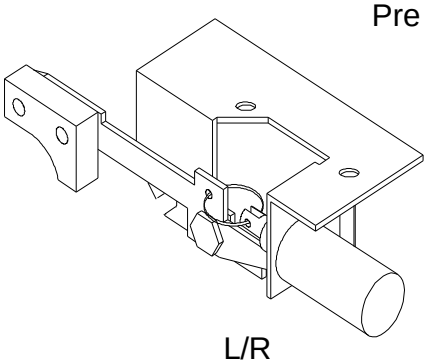


Model 275 / Series 600
Motor and Clutch Assembly
85186700

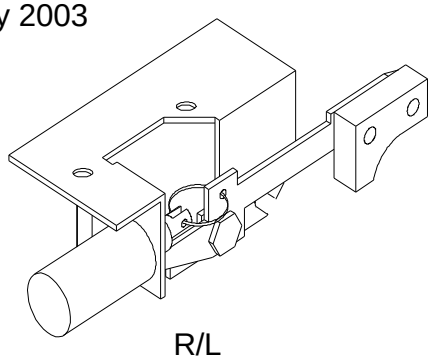


All Electric Models
Part Number 85152700

Solenoid and Hook Assembly
Pre January 2003

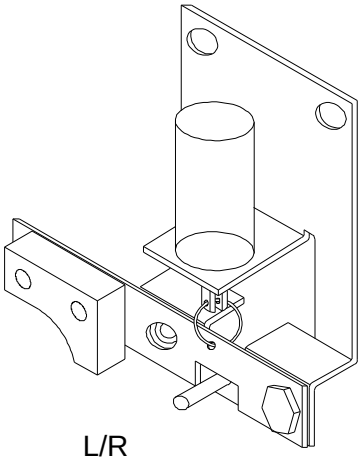


L/R
85150520

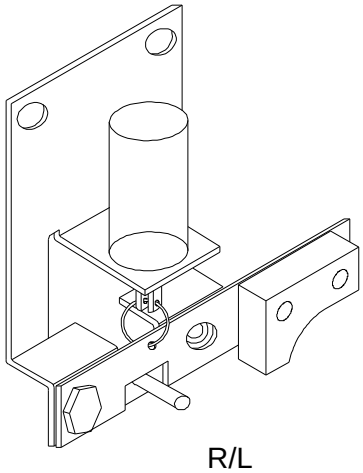


R/L
85150510

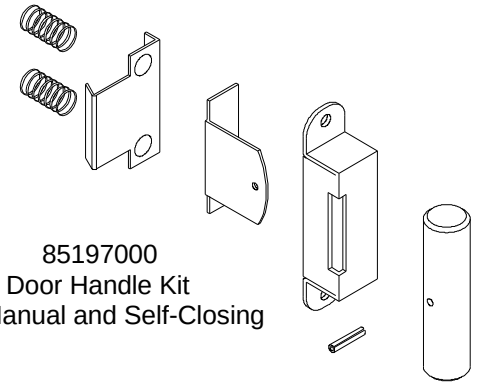
Solenoid and Hook Assembly
Electric Chassis Models
After January 2003



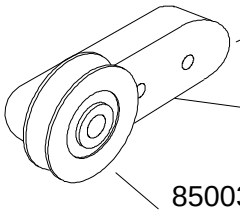
L/R
85002920



R/L
85002910



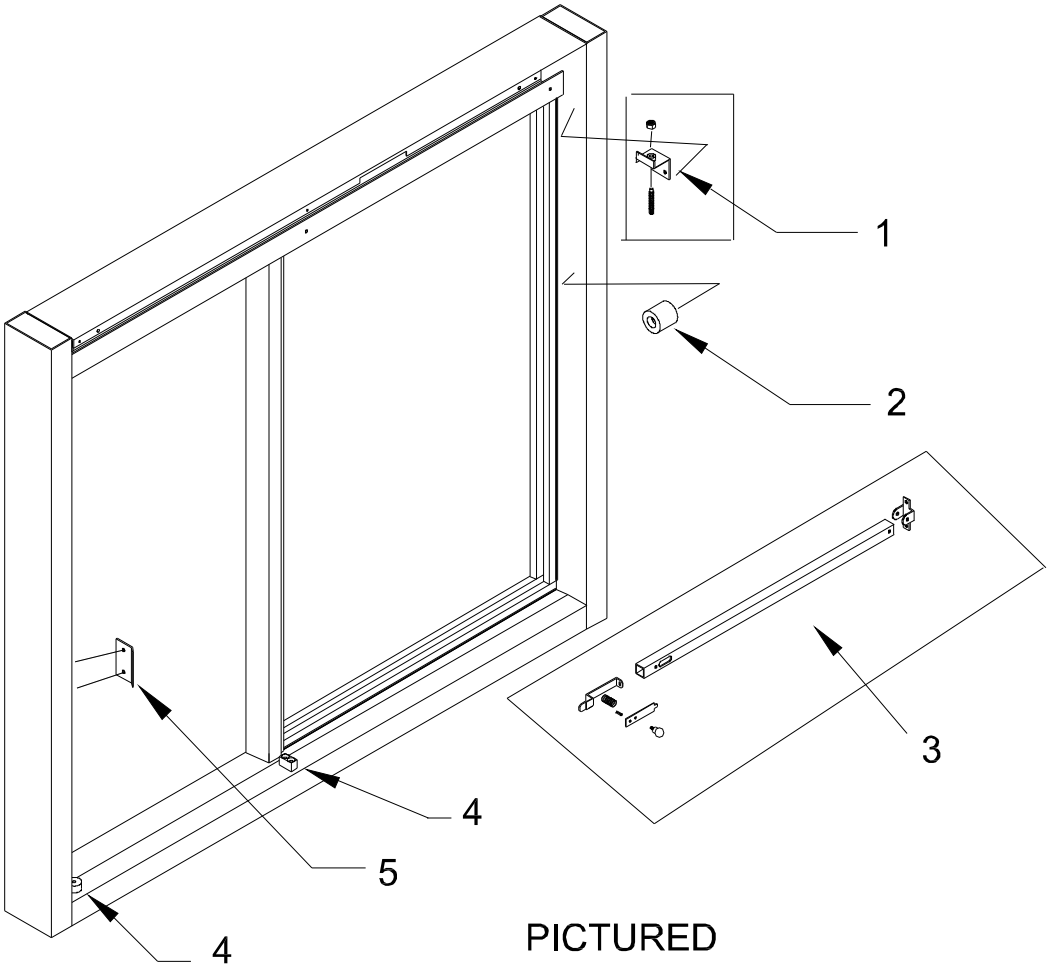
85197000
Door Handle Kit
275 Manual and Self-Closing



20010012
Mounting Block

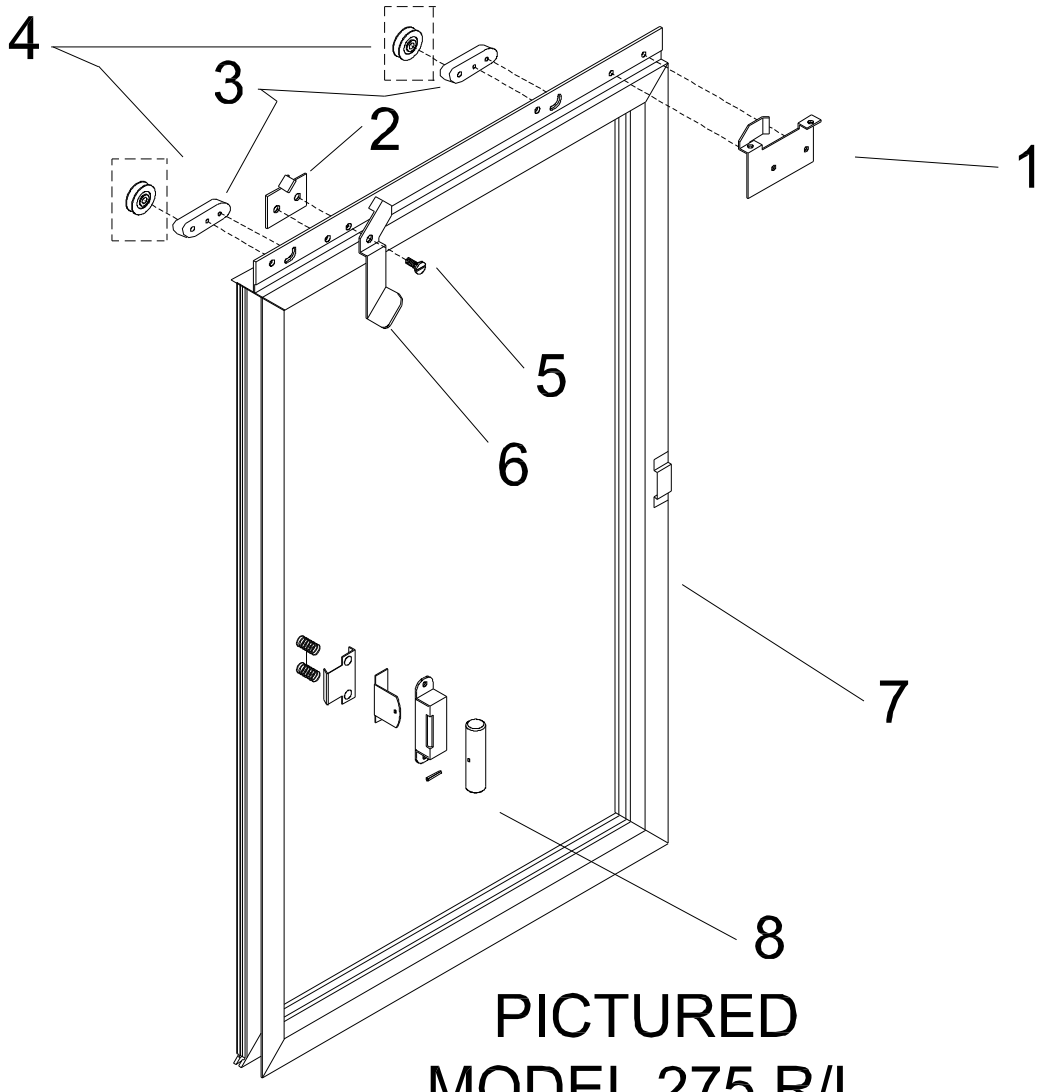
85003100
Roller Bearing/Block Kit

85003600
Roller Grove Bearing Kit



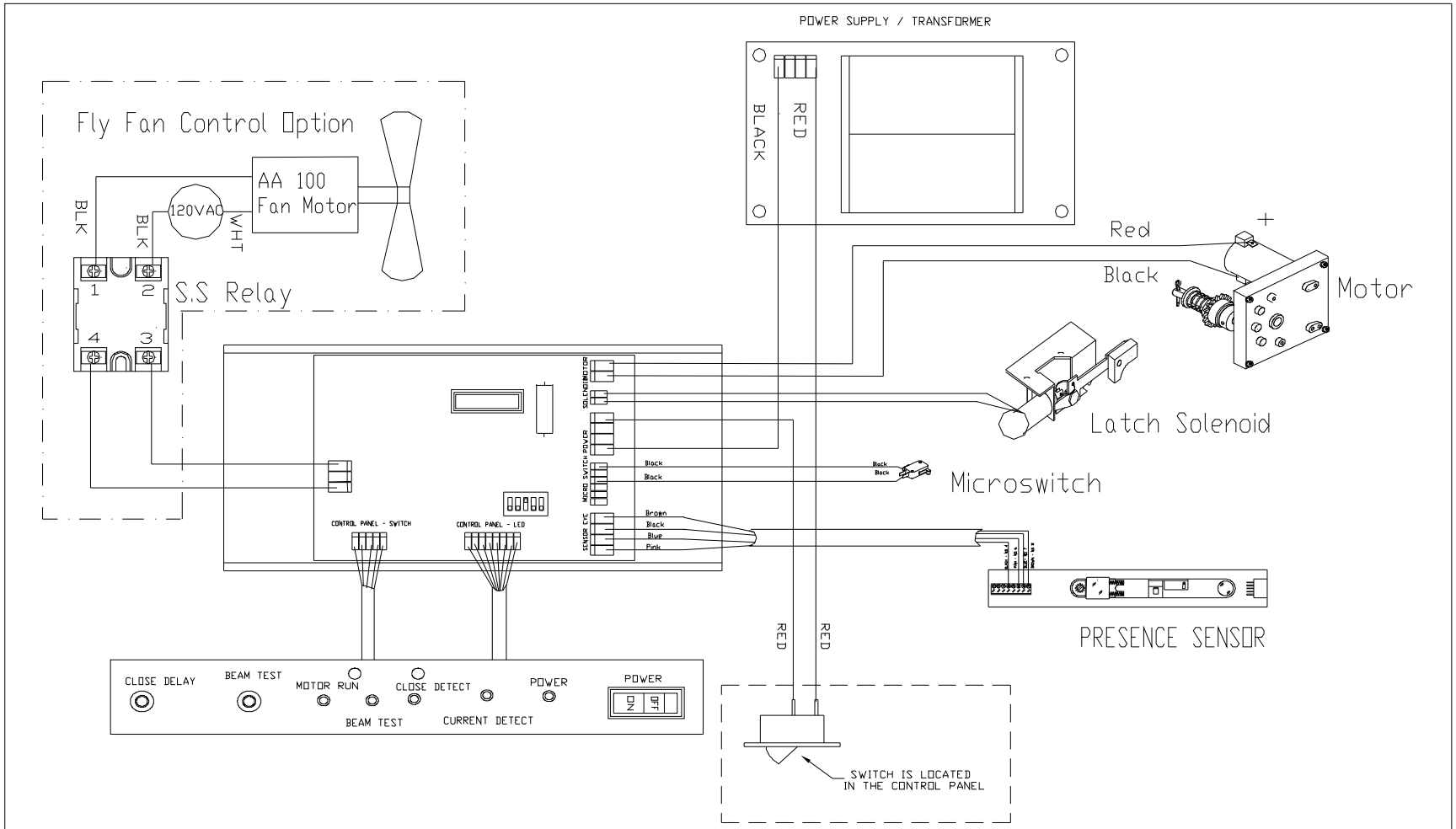
PICTURED
MODEL 275 R/L SELF-CLOSER

REF ID #	PART NUMBER	DESCRIPTION		REF ID #	PART NUMBER	DESCRIPTION
1	85000700	Adjustment Screw Kit		3	85197104	Lock Bar Kit Champ
2	40010030	Bumper		4	85003400	Door Guide Kit
3	85197102	Lock Bar Kit CL		5	95183600	Door Handle Striker Plate
3	85197101	Lock Bar Kit Br				



PICTURED
MODEL 275 R/L
MANUAL & ELECTRIC

REF ID #	PART NUMBER	DESCRIPTION		REF ID #	PART NUMBER	DESCRIPTION
1	65181120	Chain and Micro Switch Bracket L/R		5	10010204	Shoulder Screw
1	65181110	Chain and Micro Switch Bracket L/R		6	85186610	Manual Release Handle R/L Assy
2	65181910	Solenoid Striker Plate L/R		6	85186620	Manual Release Handle L/R Assy
2	65181920	Solenoid Striker Plate R/L		7	Call MFGR	Door Assembly
3	20010012	Block (Banana Slot)		8	85197000	Door Handle Kit Manual and Self-Closer
4	85003600	Roller Grove Bearing				



WORK TO DIMENSIONS-DO NOT SCALE TOL. UNLESS SPECIFIED XXXX TOL. NOT REQ'D TOL. CLASS ± .030 ANGULAR TOL. ± 1°	USED IN PRODUCTS:	DESIGN BY: SRH	MATERIAL: Elec Components	READY ACCESS 1815 Arthur Drive ▪ West Chicago, IL ▪ 800-621-5045 ▪630-876-7766 ▪ Fax 630-876-7767
	275	DATE: 2/13/04	MATERIAL SPEC:	
	REVISION: OR	DRAWN BY: SC		
	REVISION DATE: 2/13/04	DATE: 2/13/04	GAUGE:	
	LATEST REVISION NOTE:			DESCRIPTION: 275 Wiring Diagram
				PART. NO.: N/A

READY
ACCESS®